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U.S.S.R.

ARMORED AMPHIBIOUS PERSONNEL CARRIER

UNCLASSIFIED

This vehicle, which employs the chassis of the Soviet PT-76 amphibious tank, is intended as the replacement for wheeled armored personnel carriers now in widespread use.

The entire hull is lightly armored. A watertight bulkhead-type door is provided on the right side of the personnel compartment. There is no permanently attached overhead cover for the personnel compartment.

The use of cellular-type road wheels reduces unsprung weight and increases the vehicle's buoyancy in water.

STAT

CHARACTERISTICS

Crew	3
Weight (combat loaded)	14.5 metric tons (16 short tons) (est)
Personnel load	12
Maximum frontal armor	15 - 20 mm (0.59 - 0.78 in) (est)
Maximum side armor	15 mm (0.59 in) (est)
Engine type and horsepower	V-6 diesel, 237 hp
Method of propulsion in water	Hydrojet
Maximum road speed	35 km/hr (22 mph)
Maximum water speed	8 - 11 km/hr (5 - 7 mph) (est)
Cruising range	240 - 260 km (150 - 160 miles)
Maximum trench	2.3 m (7 ft 6 in)
Maximum step	0.60 m (2 ft) (est)
Armament	One 12.7-mm DShK M1938/46 HMG
Accessory equipment	Radio 10-RT

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ARMORED AMPHIBIOUS PERSONNEL CARRIER

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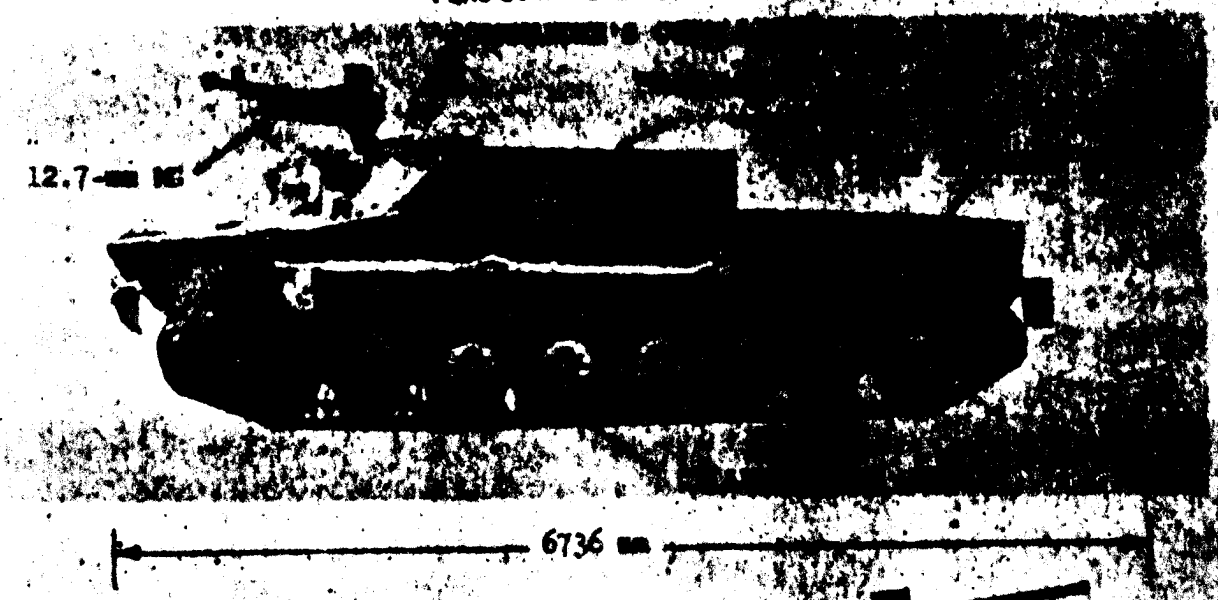

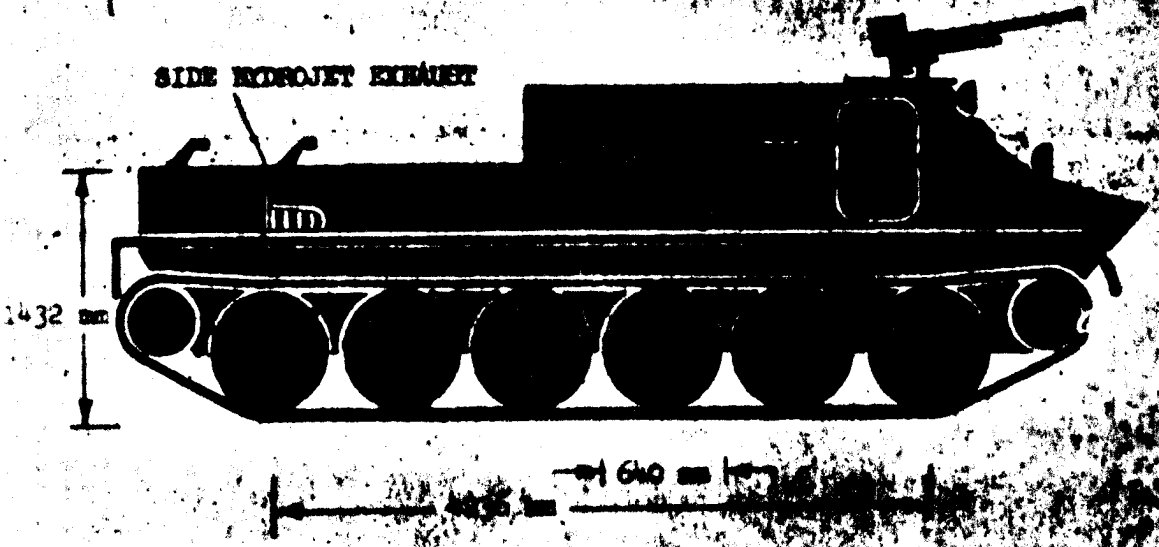

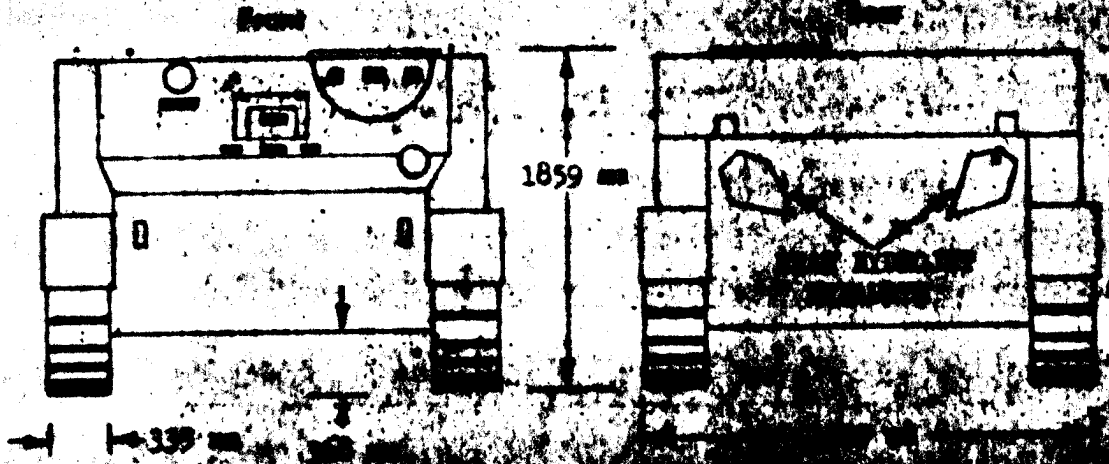

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TWIN 57-MM SELF-PROPELLED ANTIAIRCRAFT GUN

The twin 57-mm is the first self-propelled antiaircraft gun to be introduced by the U.S.S.R. since World War II.

The weapon consists of two 57-mm antiaircraft guns mounted in a lightly armored open turret, and a redesigned T-54 tank chassis. The only apparent changes to the chassis include (1) removing one road wheel and its suspension assembly from each side; (2) respacing the remaining four road wheels; and (3) making the driver's hatch square shaped.

The 57-mm guns are modified versions of the Soviet towed antiaircraft gun Model S-60. Overall ballistic performance is the same for both towed and self-propelled weapons.

CHARACTERISTICS

Weight (combat loaded)	28.1 metric tons (31 short tons)
Maximum frontal armor	100 mm (3.93 in) at 60° (est)
Maximum side armor	50 mm (1.97 in) (est)
Maximum turret armor	20 mm (0.78 in)
Engine type and horsepower	V-12 diesel, 512 hp at 2000 rpm
Maximum road speed	48 km/hr (30 mph)
Cruising range	400 km (250 miles)
Maximum trench	2.7 m (8 ft 10 in)
Maximum step	0.7 m (2 ft 4 in)
Maximum ford	1.4 m (4 ft 7 in)
Armament	Two 57-mm antiaircraft guns (modified versions of towed AA gun Model S-60)
Rounds carried	320 (est)
Muzzle velocity	HE, 1037 m/s (3400 fps) (est) AP, 991 m/s (3250 fps) (est)
Weight of projectile	HE, 2.7 kg (6 lb) (est) AP, 3.14 kg (6.92 lb) (est)
Armor penetration w/AP round	100 mm at 0° at 1000 m (est) 75 mm at 0° at 2000 m (est)
Rate of fire	105 - 120 rounds per tube/min (est)
Accessory equipment	Radio 10-RT

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TWIN 57-MM SELF-PROPELLED ANTIAIRCRAFT GUN

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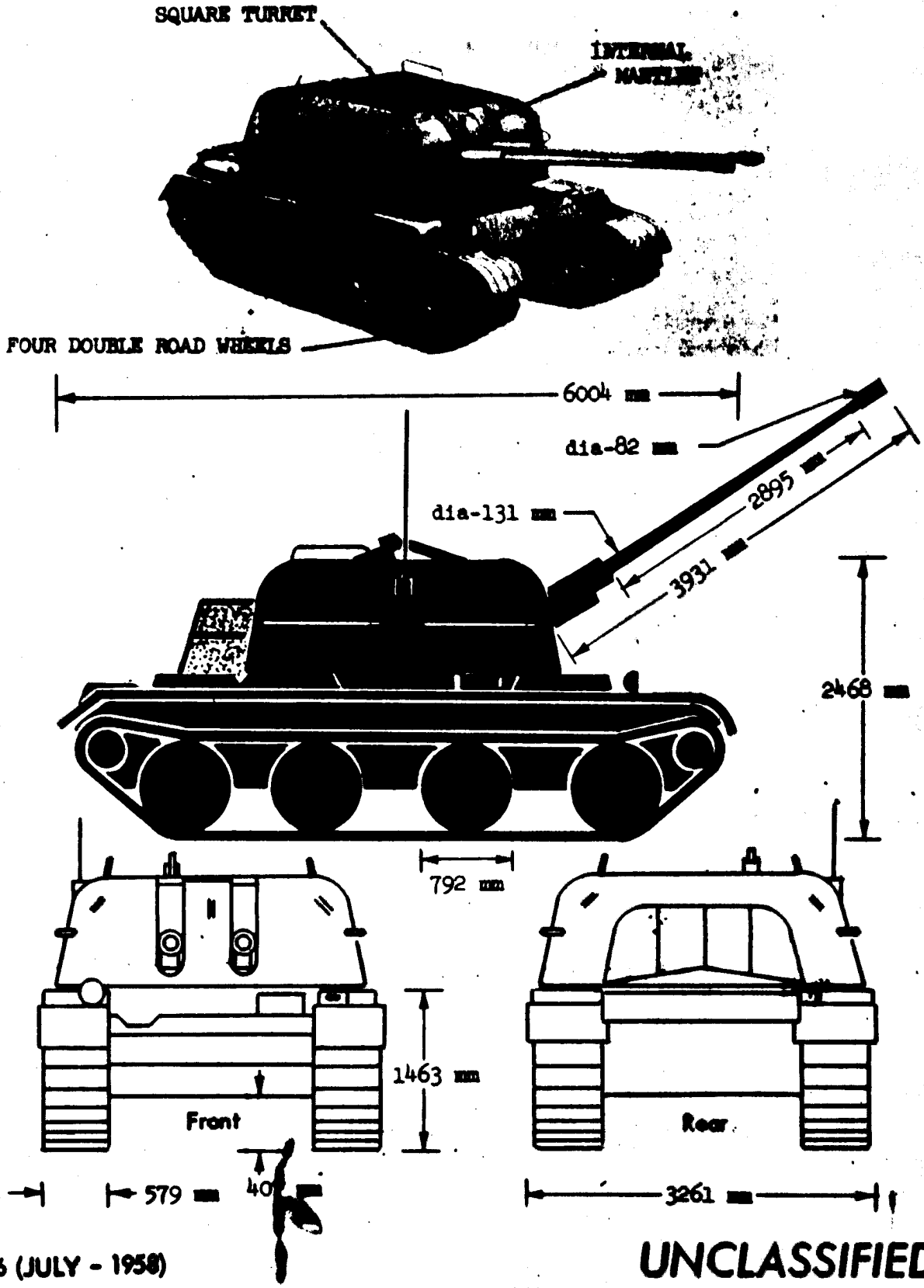

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The new Soviet heavy tank, in general appearance, resembles the JS-3 which it supersedes. The turret, however, has been completely redesigned; the turret front has been cleaned up by installing a redesigned mantlet (which exists in two versions), and trunnions for the main armament have been relocated.

The main armament, although the same caliber as that of the JS-3, is a new weapon fitted with a bore evacuator and muzzle brake.

The vulnerability of the new tank has been materially reduced by (1) increased frontal armor thickness, (2) some angularity to the hull sides, (3) provisions for the utilization of skirting armor, and (4) slightly increased angularity of the frontal armor.

These changes have resulted in a slight increase in overall length and width of hull, and in the addition of one more road wheel.

CHARACTERISTICS

Weight (combat loaded)	49 metric tons (54 short tons) (est)
Maximum frontal armor	150 mm (5.9 in) at 60° (est)
Maximum side armor	75 mm (2.95 in) at 0° (est)
Maximum turret armor	200 mm basis (7.87 in) (est)
Engine type and horsepower	V-12 diesel, 690 hp at 2000 rpm
Maximum road speed	35 km/hr (22 mph) (est)
Cruising range	220 km (135 miles) (est)
Maximum trench	3 m (10 ft) (est)
Maximum step	0.9 m (3 ft) (est)
Maximum ford	1.2 m (4 ft) (est)
Main armament	122-mm gun
Rounds carried	30
Muzzle velocity	HE, 914 m/s (3000 fps) (est) AP, 914 m/s (3000 fps) (est)
Weight of projectiles	HE, 24.95 kg (55 lb) (est) AP, 24.95 kg (55 lb) (est)
Armor penetration w/AP round	150 mm at 0° at 1000 m (est) 130 mm at 0° at 2000 m (est)
Rate of fire	7 - 10 rounds/min (est)
Secondary armament	One coaxial 12.7-mm DShK M1938/46 HMG; one antiaircraft 12.7-mm DShK M1938/46 HMG
Accessory equipment	Radio 10-RT

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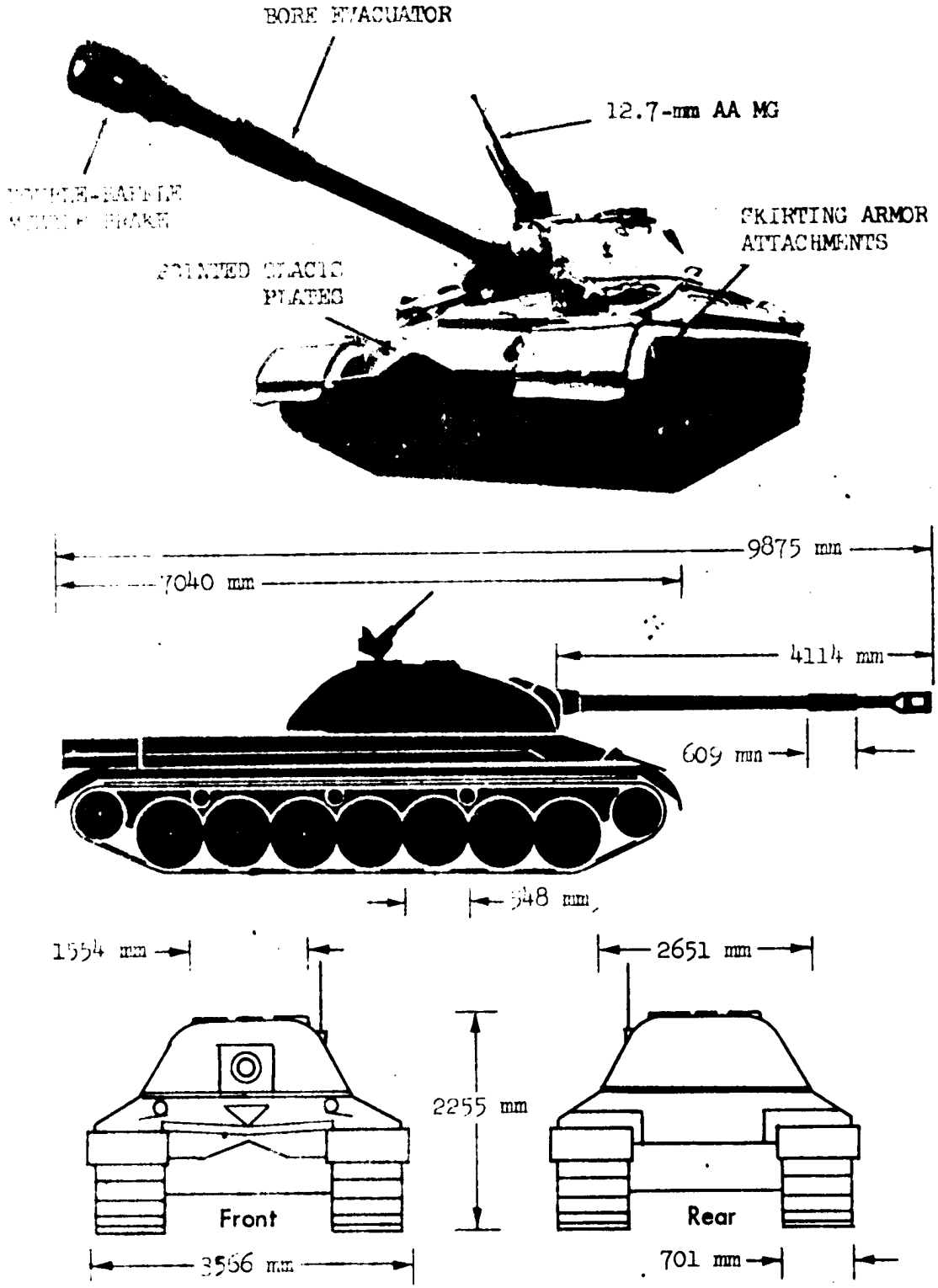

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